

Utility Patent
033134.2097.UTL1
Appln. No. 09/489,220

VERSION WITH MARKINGS TO SHOW CHANGES MADE

KEY: Underlined = added

[Bold in brackets] = deleted.

1. (Amended) A method for detecting a toxic response, comprising:

(a) contacting test cells with a compound;

(b) determining the expression levels of two or more nucleic acids in said test cells [a test sample], wherein the two or more nucleic acids are selected from the group consisting of Putative cyclin G1 interacting protein, EST (W74293), Fatty-acid -coenzyme A ligase (long-chain 3), KIAA0220, KIAA0069, Acinus, Translation initiation factor eIF1 (A12/SUI1), Ornithine aminotransferase (gyrate atrophy), Insulin-like growth factor binding protein 1, Metallothionein-1H, F₁F₀-ATPase synthase *f* subunit, Ring finger protein 5, EST (H73484), XP-C repair complementing protein, Squalene epoxidase, Microsomal glutathione-S-transferase 1, Defender against cell death 1, COPII protein, KIAA0917, Corticosteroid binding globulin, Calumenin, Ubiquinol-cytochrome c reductase core protein II, SEC13 (*S. cerevisiae*)-like 1, EST (R51835), Human chromosome 3p21.1 gene sequence, EST (AA 441895), Ribonuclease (RNase A family, 4), Transcription factor Dp-1, MAC30, Cyclin-dependent kinase 4, Multispanning membrane protein, Splicing factor (arginine/serine-rich 1), Cytochrome c-1, Lactate dehydrogenase-A, Pyrroline-5-carboxylate synthetase, Glutamate dehydrogenase, Pyruvate dehydrogenase (lipoamide) beta, Ribosomal protein S6 kinase (90kD, polypeptide 3), Acetyl-coenzyme A acetyltransferase 2, Proteasome activator subunit 3 (PA28 gamma; K_i), EST (N22016), EST (A1131502), Activating transcription factor 4, Transforming growth factor-beta type III receptor, Glutathione-S-transferase-like, NADH dehydrogenase subunit 2, Heat shock

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protein 90, EST(AI148382), EST (AA283846), EST (AI310515) and EST (AA805555), wherein the numbers listed in parentheses is the GenBank accession number; and

(b) comparing the expression levels in the test cells [sample] with expression levels of the same nucleic acids in a control sample, wherein a difference in expression levels between the test cells and control sample[s] is an indicator of a toxic response in the test cells [sample].

7. (Amended) The method of claim 1, wherein the group consists of Cytochrome c-1, F₁F₀-ATPase synthase f subunit, Ubiquinol-cytochrome c reductase core protein II, Lactate dehydrogenase-A, Pyruvate dehydrogenase E1-beta subunit and NADH dehydrogenase subunit 2.

9. (Amended) The method of claim 1, wherein the group consists of XP-C repair complementing protein, Microsomal glutathione-S-transferase 1, Glutathione-S-transferase-like, Metallothionein-1H, Heat shock protein 90, Activating transcription factor 4, [cAMP-dependent transcription factor ATF-4] and EST (AI148382).